

XRSAG Debrief to PhysPAG

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What transpired

- An introduction to the community of the XRSAG – charter, goals
- “Programmatic” presentations
 - What is happening in Europe & Japan
 - Mission Costing Methodology
 - PATR process, needs, etc
 - CST follow-up: next steps
- Technology presentations
 - Optics
 - Detectors
- Open discussion
 - Paths forward for the community
 - XRSAG tasks and “working groups”
 - Inputs to the PhysPAG

Inputs to PHYSPAG – recommendations

(to be further refined)

- 1. Continue mission studies** (with modest funding) – building on CST report (completes E/FY14)
 1. Process: Email to CST, then HEAD to summarize plans
 2. Probe class “n-cal”
 3. Large mission: AXSIO
- 2. Complete Technology Development Plan** (goal 12/12) based on IXO/AXSIO work, but also including/emphasizing need for early funding for long-lead future technologies:
 1. Lead:Petre
 2. Make an initial recommendation for immediate investments in optics, calorimeter (tied to #1)
 1. Development of optics/detectors for near-term missions suitable for 2015
 2. 2020 decadal needs
- 3. PATR Process & Tech needs:** comment on process (goal 11/12), start to update technology needs list (~1/13), develop rec. on directed vs. competed funding (~1/13)
 1. Leads: Reid, Falcone, Bandler
 2. Dates to be iterated with Thai Pham to ensure utility.
- 4. Refine science case from NWNH** (considering Astro-H, NuSTAR) & develop science requirements for FY15 mission (initial drop ~3/13) then develop an initial science case for 2020 decadal (~3/13)
Organize workshops
 1. Leads: Smith/Vihklinin/Ptak
 2. Dates to be refined to tie into #2, #3

Inputs to PhysPAG – recommendations -II

5. **COPAG common science:** Develop working group to identify where x-ray measurements can support COPAG science (Date: TBD but “soon”)
 1. Lead: Kouveliotou, Mushotzky

6. **Cost Working Group** – at APS or PAG level?
 1. Get history of MDL vs. as-builts
 2. Develop uniform requirements
 3. Collect information on X-ray mission
 4. Develop rec. for Phase A and pre-phase A funding level
 5. Where should project costs be “finalized” – at proposal? PDR? CDR?

Next meetings

1. Monthly XRSAG - webex
 1. Future of ESA/JAXA potential collaborations including Astro-I – both strategic and smaller missions
 2. Finalize working group products, schedules
2. AAS in January –
 1. Monday afternoon – 30 minute summary /status
 2. Thursday afternoon – 4+ hours - questions of logistics
3. In-person at HEAD meeting (potentially Friday) Topics to include presentations:
 1. Tech Dev Plan WG
 2. PATR WG
 3. Science WG
4. Working Group Meetings:
 1. meeting schedule to be set by each group
 2. Can PCOS provide telecon numbers and webex?

Lessons Observed

- Need to have more time!
- Need to do a better job of communicating the agenda/goals further in advance.
- We need a wiki – how to do this??
- And an open question –
 - Do we need a GAP-SAG?
 - Energies from ~50 keV – ~500 keV?
 - Both 100 and 500 are natural boundaries